Acer Projector

X1130/X1230/X1230S Series User's Guide

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Acer Projector X1130/X1230/X1230S Series User's Guide
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Record the model number, serial number, purchase date and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your projector. All correspondence concerning your unit should include the serial number, model number and purchase information.

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Acer Projector X1130/X1230/X1230S Series

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

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Information for Your Safety and Comfort

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

Turning the product off before cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Caution for plug as disconnecting device

Observe the following guidelines when connecting and disconnecting power to the external power supply unit:

- Install the power supply unit before connecting the power cord to the AC power outlet.
- Unplug the power cord before removing the power supply unit from the projector.
- If the system has multiple sources of power, disconnect power from the system by unplugging all power cords from the power supplies.

Caution for Accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power to the equipment, be sure to unplug the power cord from the electrical outlet.

Warnings!

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface.

This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.

- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.

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- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage rotor devices, lamp.

Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip's input rating.
- This product's AC adapter is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the AC adapter plug. Do not insert the plug into a non-grounded power outlet. Contact your electrician for details.

Warning! The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.

Note: The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

- Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord meets the following requirements: detachable type, UL listed/CSA certified, type SPT-2, rated 7A 125V minimum, VDE approved or its equivalent, 4.6 meters (15 feet) maximum length.

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Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- the power cord or plug is damaged, cut or frayed
- liquid was spilled into the product
- the product was exposed to rain or water
- the product has been dropped or the case has been damaged
- the product exhibits a distinct change in performance, indicating a need for service
- the product does not operate normally after following the operating instructions

Note: Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

Warning! For safety reasons, do not use non-compliant parts when adding or changing components. Consult your reseller for purchase options.

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

Additional safety information

- Do not look into the projector's lens when the lamp is on. The bright light may hurt your eyes.
- Turn on the projector first and then signal sources
- Do not place the product in following environments:
  - Space that is poorly ventilated or confined. At least 50cm clearance from walls and free flow of air around the projector is necessary.
  - Locations where temperatures may become excessively high, such as inside of a car with all windows rolled up.
  - Locations where excessive humidity, dust, or cigarette smoke may contaminate optical components, shortening the life span and darkening the image.
  - Locations near fire alarms.
  - Locations with an ambient temperature above 40 °C/104 °F.
  - Locations where the altitudes are higher than 10000 feet.
- Unplug immediately if there is something wrong with your projector. Do not operate if smoke, strange noise or odor comes out of your projector. It

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might cause fire or electric shock. In this case, unplug immediately and contact your dealer.

- Do not keep using this product to break or drop it. In this case contact your dealer for inspection.
- Do not face the projector lens to the sun. It can lead to fire.
- When switching the projector off, please ensure the projector completes its cooling cycle before disconnecting power.
- Do not turn off the main power abruptly or unplug the projector during operation. It can lead to lamp breakage, fire, electric shock or other trouble. The best way is to wait for the fan to turn off before turning main power off.
- Do not touch air outlet grille and bottom plate which becomes hot.
- Clean the air filter frequently. The temperature inside may rise and cause damage when the filter/ventilation slots clogged with dirt or dust.
- Do not look into the air outlet grille when projector is operating. It may hurt your eyes.
- Always open the lens shutter or remove the lens cap when the projector is on.
- Do not block the projector lens with any object when the projector is under operation as this could cause the object to become heated and deformed or even cause a fire. To temporarily turn off the lamp, press HIDE on the remote control.
- The lamp becomes extremely hot during operation. Allow the projector to cool for approximately 45 minutes prior to removing the lamp assembly for replacement.
- Do not operate lamps beyond the rated lamp life. It could cause it to break on rare occasions.
- Never replace the lamp assembly or any electronic components unless the projector is unplugged.
- The product will detect the life of the lamp itself. Please be sure to change the lamp when warning messages display.
- When changing the lamp, please allow unit to cool down, and follow all changing instructions.
- Reset the "Lamp Hour Reset" function from the Onscreen Display "Management" menu after replacing the lamp module.
- Do not attempt to disassemble this projector. There are dangerous high voltages inside which may hurt you. The only user serviceable part is the lamp which has its own removable cover. Refer servicing only to suitable qualified professional service personnel.
- Do not stand the projector on end vertically. It may cause the projector to fall over, causing injury or damage.
- This product is capable of displaying inverted images for ceiling mount installation. Only use acer ceiling mount kit for mounting the projector and ensure it is securely installed.

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Operating environment for using wireless function (Optional)

Warning! For safety reasons, turn off all wireless or radio transmitting devices when using your machine under the following conditions. These devices may include, but are not limited to: wireless LAN (WLAN), Bluetooth and/or 3G.

Remember to follow any special regulations in force in any area, and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. This device meets RF exposure guidelines when used normally, and it and its antenna are positioned at least 1.5 centimeters (5/8 inches) away from your body. It should not contain metal and you should position the device the above-stated distance from your body.

To successfully transmit data files or messages, this device requires a good quality connection to the network. In some cases, transmission of data files or messages may be delayed until such a connection is available.

Ensure that the above separation distance instructions are followed until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device, and persons with hearing aids should not hold the device to the ear with the hearing aid. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your device in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF transmissions.

Pacemakers. Pacemaker manufacturers recommend that a minimum separation of 15.3 centimeters (6 inches) be maintained between wireless devices and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should do the following:

- Always keep the device more than 15.3 centimeters (6 inches) from the pacemaker.
- Not carry the device near your pacemaker when the device is switched on. If you suspect interference, switch off your device, and move it.

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Hearing aids. Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, and air bag systems. For more information, check with the manufacturer, or its representative, of your vehicle or any equipment that has been added. Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that air bags inflate with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed, and the air bag inflates, serious injury could result.

Using your device while flying in aircraft is prohibited. Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

Caution for Listening

To protect your hearing, follow these instructions.

- Increase the volume gradually until you can hear clearly and comfortably.
- Do not increase the volume level after your ears have adjusted.
- Do not listen to music at high volumes for extended periods.
- Do not increase the volume to block out noisy surroundings.
- Decrease the volume if you can't hear people speaking near you.

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Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit **http://global.acer.com/about/sustainability.htm**

Mercury advisory

For projectors or electronic products containing an LCD/CRT monitor or display:

"Lamp(s) contain Mercury, Dispose Properly."

Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state or federal laws. For more information, contact the Electronic Industries Alliance at www.eiae.org. For lamp-specific disposal information, check **www.lamprecycle.org**

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First Thing First

Usage Notes

Do:

- Turn off the product before cleaning.
- Use a soft cloth moistened with mild detergent to clean the display housing.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Don't:

- Block the slots and openings on the unit provided for ventilation.
- Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
  - In extremely hot, cold or humid environments.
  - In areas susceptible to excessive dust and dirt.
  - Near any appliance that generates a strong magnetic field.
  - Place in direct sunlight.

Precautions

Follow all warnings, precautions and maintenance as recommended in this user's guide to maximize the life of your unit.

Warning:

- Do not look into the projector's lens when the lamp is on. The bright light may hurt your eyes.
- To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- Please do not open or disassemble the product as this may cause electric shock.
- When changing the lamp, please allow unit to cool down, and follow all changing instructions.
- This product will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Reset the "Lamp Hour Reset" function from the Onscreen Display "Management" menu after replacing the lamp module.
- When switching the projector off, please ensure the projector completes its cooling cycle before disconnecting power.
- Turn on the projector first and then the signal sources.
- Do not use lens cap when projector is in operation.
- When the lamp reaches the end of its life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp".

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Introduction

Product Features

This product is single-chip DLP® projector. Outstanding features include:

- DLP® technology
- X1130: Native 800 x 600 SVGA resolution
  X1230/X1230S: Native 1024 x 768 XGA resolution
  4:3 / 16:9 aspect ratio supported
- Acer ColorBoost technology delivers nature's true colors for vivid, life-like images
- High brightness and contrast ratio
- Versatile display modes (Bright, Standard, Video, Blackboard, User 1, User 2) enable optimum performance in any situation
- NTSC/PAL/SECAM compatible with HDTV (720p, 1080i) support
- Lower power consumption and economy (ECO) mode extends lamp life
- Acer EcoProjeciton Technology delivers Intelligent power management approach and physical efficiency improvement
- Empowering Key reveals Acer Empowering Technology utilities (Acer eView, eTimer, ePower Management) for easy adjustment of settings
- Advanced keystone correction delivers optimum presentations
- Multi-language Onscreen Display (OSD) menus
- Full-function remote control
- X1130/X1230: Manual focus projection lens zooms up to 1.1X
- 2X digital zoom and pan move function
- Microsoft® Windows® 2000, XP, Vista® OS compliant

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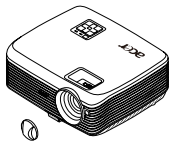
Package Overview

This projector comes with all the items shown below. Check to make sure your unit is complete. Contact your dealer immediately if any thing is missing.



Projector with lens cap

Power cord

VGA cable

Composite video cable

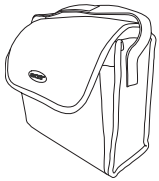
Security card

User's guide (CD-ROM)

Remote control

Quick start guide

Battery x 2



Carrying case

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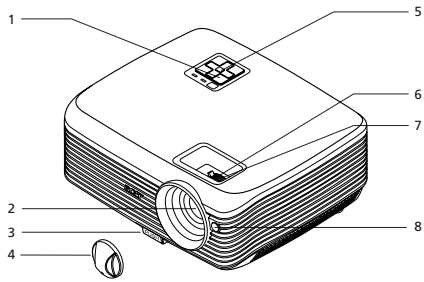
Projector Overview

Projector Outlook

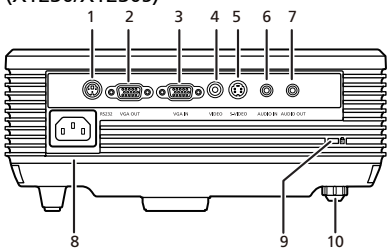
Front / upper side



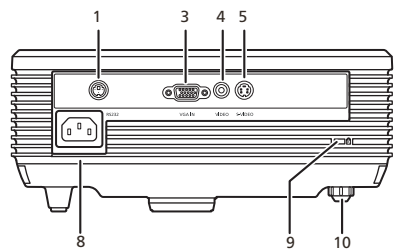
#	Description	#	Description
1	Power key and Power indicator LED	5	Control panel
2	Projection lens	6	Zoom ring
3	Elevator button	7	Focus ring
4	Lens cap	8	Remote control receiver

Rear side

(X1230/X1230S)



(X1130)



#	Description	#	Description
1	RS232 connector	6	Audio input connector
2	Monitor loop-through output connector	7	Audio output connector
3	PC analog signal/HDTV/ component video input connector	8	Power socket
4	Composite video input connector	9	Kensington™ lock port
5	S-Video input connector	10	Tilt adjusting wheel

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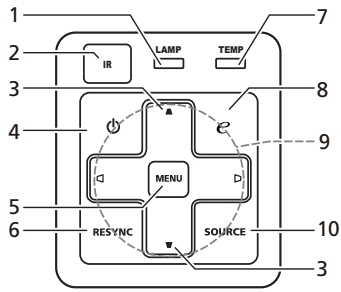
Control Panel



#	Function	Description
1	LAMP	Lamp Indicator LED
2	IR	Remote control receiver
3	Keystone	Adjusts image distortion caused by tilting projection (±40 degrees).
4	Power key and Power indicator LED	Refer to the "Turning the Projector On/ Off" section.
5	MENU	• Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu. • Confirms your selection of items.
6	RESYNC	Automatically synchronizes the projector to the input source.
7	TEMP	Temp Indicator LED
8	Empowering key	Enables unique Acer functions: eView, eTimer, ePower Management.
9	Four directional select keys	Selects items or makes adjustments to your selection.
10	SOURCE	Chooses RGB, component video, S-Video, composite video or HDTV source.

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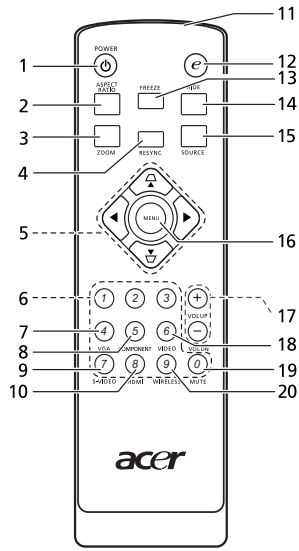
Remote Control Layout



#	Function	Description
1	Power	Refer to the "Turning the Projector On/Off" section.
2	ASPECT RATIO	To choose the desired aspect ratio (Auto/4:3/16:9).
3	ZOOM	Zooms the projector display in or out.
4	RESYNC	Automatically synchronizes the projector to the input source.
5	Keystone	Adjusts image distortion caused by tilting projection (±40 degrees).
	Four directional select keys	Selects items or makes adjustments to your selection.
6	Keypad 0~9	Press "**0~9**" to input a password in the "Setting > Security" OSD.
7	VGA	To change source to VGA. This connector supports analog RGB, YPbPr (480p/576p/720p/1080i), and YCbCr (480i/576i).
8	COMPONENT	To change source to Component video. This connection supports YPbPr (480p/576p/720p/1080i) and YCbCr (480i/576i).
9	S-VIDEO	To change source to S-Video.

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#	Function	Description
10	HDMI™	To change source to HDMI™ (for the model with HDMI™ connector).
11	Infrared transmitter	Sends signals to the projector.
12	Empowering key	Enables unique Acer functions: eView, eTimer, ePower Management.
13	FREEZE	To pause the screen image.
14	HIDE	Momentarily turns off the video. Press "**HIDE**" to hide screen image; press again to display the image.
15	SOURCE	Chooses RGB, component video, S-Video, composite video or HDTV source.
16	MENU	• Launches the Onscreen Display (OSD) menu, returns to the previous step for the OSD menu operation or exits the OSD menu. • Confirms your selection of items.
17	VOL UP/VOL DN	Increases/decreases the volume.
18	VIDEO	To change source to Composite video.
19	MUTE	To turn on/off the volume.
20	WIRELESS	Displays the image which is wirelessly transmitted from the PC to the projector via the "Acer eProjection Management" utility. (for wireless model)

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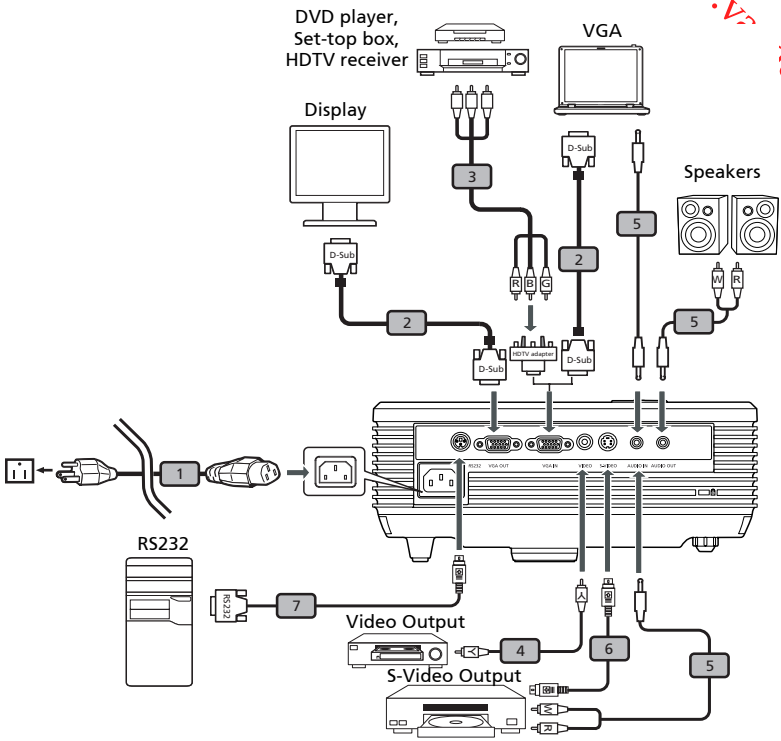
Getting Started

Connecting the Projector



#	Description	#	Description
1	Power cord	5	Audio cable
2	VGA cable	6	S-Video cable
3	VGA to component video/HDTV adapter	7	RS232 cable
4	Composite video cable		

Note: To ensure the projector works well with your computer, please make sure the timing of the display mode is compatible with the projector.

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Turning the Projector On/Off

Turning On the Projector

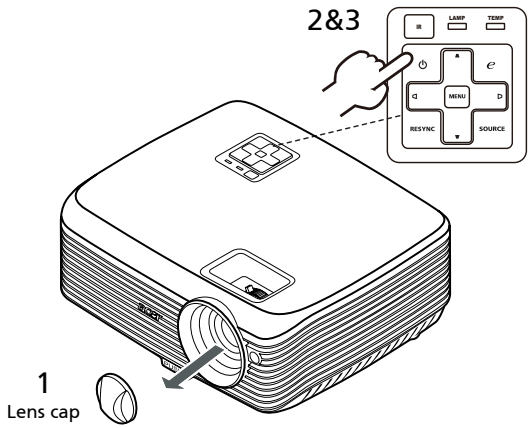
1 Remove the lens cap.

2 Ensure that the power cord and signal cable are securely connected. The Power LED will flash red.

3 Turn on the projector by pressing ⏻ (POWER) on the control panel or remote control, and the Power indicator LED will turn blue.

4 Turn on your source (computer, notebook, video player, etc.). The projector will detect your source automatically.

- If the screen displays "Lock" & "Source" icons, it means the projector is locked onto a specific source type and there is no such type of input signal detected.
- If the screen displays "No Signal", please make sure the signal cables are securely connected.
- If you connect to multiple sources at the same time, use "SOURCE" on the control panel or remote control, or the direct source key on the remote control to switch between inputs.



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Turning Off the Projector

1 To turn off the projector, press ⏻ (POWER) twice. The message below will display onscreen for 10 seconds.
"Please press power button again to complete the shutdown process."

2 Immediately after powering off, the Power indicator LED will flash RED rapidly and the fan(s) will continue to operate for about 120 seconds. This is to ensure that the system cools correctly.

3 Once the system has finished cooling, the Power indicator LED will turn solid RED which means the projector enters a standby mode.

4 It is now safe to unplug the power cord.

Warning: Do not turn on the projector immediately after powering off.

Note: If you wish to turn the projector back on, you must wait for 60 seconds at least to press the "**Power**" button to restart the projector.

Warning indicators:

- If the projector automatically shuts down and the **LAMP** indicator turns solid RED, please contact your local reseller or service center.
- If the projector automatically shuts down and the **TEMP** indicator turns solid RED, this indicates that the projector has overheated. The message below will display onscreen if this is about to happen:

  "Projector Overheated. Lamp will automatically turn off soon."
- If the **TEMP** indicator flashes RED and the message below is displayed onscreen, please contact your local dealer or service center:

  "Fan fail. Lamp will automatically turn off soon."

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Adjusting the Projected Image

Adjusting the Height of Projected Image

The projector is equipped with an elevator foot for adjusting the image height.

To raise the image:

1 Press the elevator button.

2 Raise the image to the desired height angle, then release the button to lock the elevator foot into position.

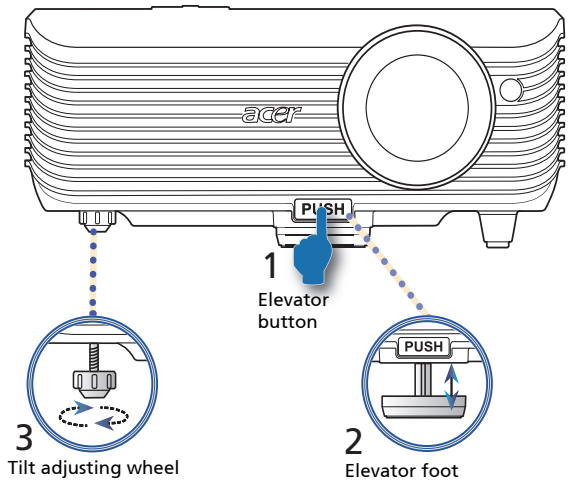
3 Use Tilt adjusting wheel to fine-tune the display angle.

To lower the image:

1 Press the elevator button.

2 Lower the image to the desired height angle, then release the button to lock the elevator foot into position.

3 Use Tilt adjusting wheel to fine-tune the display angle.



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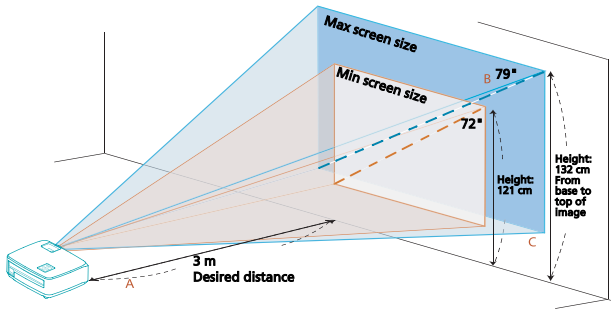
How to Optimize Image Size and Distance

Consult the table below to find the optimal image sizes achievable when the projector is positioned at a desired distance from the screen.

- X1130/X1230

If the projector is 3 m from the screen, good image quality is possible for image sizes between 72" and 79".

Note: Remind as below figure, the space of 132 cm height is required when located at 3 m distance.



Desired Distance (m) < A >	Minimum Screen Size (Min zoom)			Maximum Screen Size (Max zoom)		
	Diagonal (inch) < B >	W (cm) x H (cm)	From base to top of image (cm) < C >	Diagonal (inch) < B >	W (cm) x H (cm)	From base to top of image (cm) < C >
1	24	49 x 37	40	26	54 x 40	44
2	48	98 x 74	80	53	108 x 81	89
2.5	60	123 x 92	101	66	134 x 101	111
3	72	147 x 110	121	79	161 x 121	132
3.5	84	172 x 129	141	93	188 x 141	156
4	96	196 x 147	161	106	215 x 161	178
4.5	108	221 x 165	181	119	242 x 181	199
5	120	245 x 184	201	132	269 x 202	221
6	144	294 x 221	241	159	323 x 242	267
7	168	343 x 257	282	185	376 x 282	310
8	192	392 x 294	322	212	430 x 323	355
9	216	441 x 331	362	238	484 x 363	399
10	241	490 x 368	404	265	538 x 403	444

Zoom Ratio: 1.1 x

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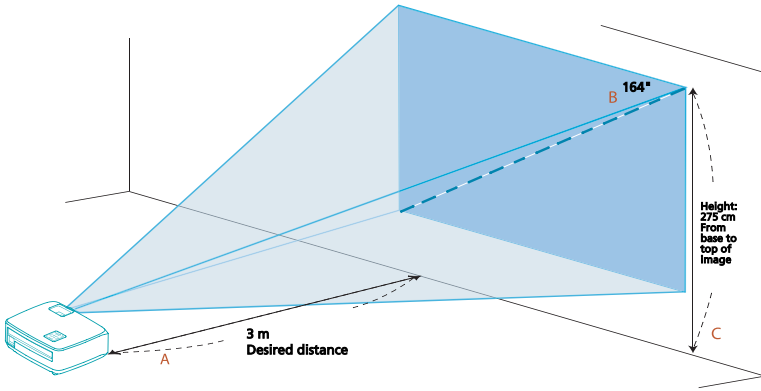
English

- X1230S

If the projector is 3 m from the screen, good image quality is possible for image sizes around 164".

Note: Remind as below figure, the space of 275 cm height is required when located at 3 m distance.



Desired Distance (m) < **A** >	Minimum Screen Size (Min zoom)		
	Diagonal (inch) < **B** >	W (cm) x H (cm)	From base to top of image (cm) < **C** >
1	55	111 x 83	92
2	109	222 x 167	183
2.5	137	278 x 208	229
3	164	333 x 250	275
3.5	191	389 x 292	321
4	219	444 x 333	367
4.5	246	500 x 375	413
5	273	556 x 417	458
6	328	667 x 500	550
7	383	778 x 583	642
8	437	889 x 667	733
9	492	1000 x 750	825
10	547	1111 x 833	917

Zoom Ratio: 1.0 x

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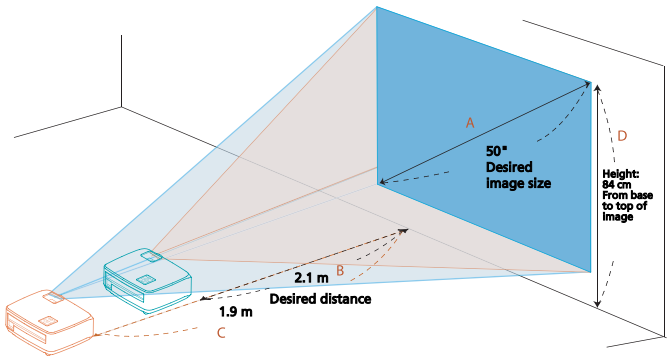
How to Get a Preferred Image Size by Adjusting Distance and Zoom

The table below shows how to achieve a desired image size by adjusting either the position or the zoom ring.

- X1130/X1230

To obtain an image size of 50" set the projector at a distance 1.9 m and 2.1 m from the screen and adjust the zoom level accordingly.



Desired Image Size		Distance (m)		Top (cm)
Diagonal (inch) < **A** >	W (cm) x H (cm)	Max zoom < **B** >	Min zoom < **C** >	From base to top of image < **D** >
30	61 x 46	1.1	1.2	50
40	81 x 61	1.5	1.7	67
50	102 x 76	1.9	2.1	84
60	122 x 91	2.3	2.5	101
70	142 x 107	2.6	2.9	117
80	163 x 122	3.0	3.3	134
90	183 x 137	3.4	3.7	151
100	203 x 152	3.8	4.2	168
120	244 x 183	4.5	5.0	201
150	305 x 229	5.7	6.2	251
180	366 x 274	6.8	7.5	302
200	406 x 305	7.6	8.3	335
250	508 x 381	9.4	10.4	419
300	610 x 457	11.3		503

Zoom Ratio: 1.1 x

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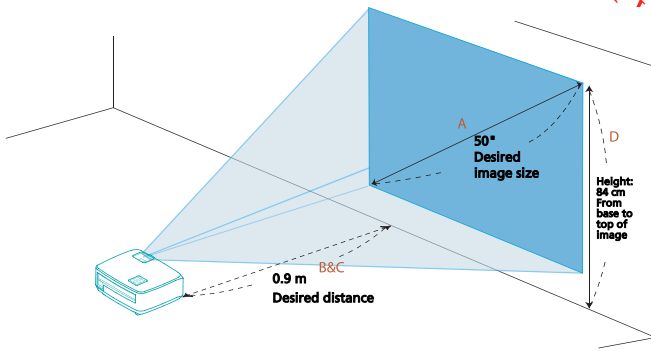
- X1230S

To obtain an image size of 50" set the projector at a distance 0.9 m from the screen and adjust the zoom level accordingly.



Desired Image Size		Distance (m)		Top (cm)
Diagonal (inch) < **A** >	W (cm) x H (cm)	Max zoom < **B** >	Min zoom < **C** >	From base to top of image < **D** >
30	61 x 46	0.5	0.5	50
40	81 x 61	0.7	0.7	67
50	102 x 76	0.9	0.9	84
60	122 x 91	1.1	1.1	101
70	142 x 107	1.3	1.3	117
80	163 x 122	1.5	1.5	134
90	183 x 137	1.6	1.6	151
100	203 x 152	1.8	1.8	168
120	244 x 183	2.2	2.2	201
150	305 x 229	2.7	2.7	251
180	366 x 274	3.3	3.3	302
200	406 x 305	3.7	3.7	335
250	508 x 381	4.6	4.6	419
300	610 x 457	5.5		503

Zoom Ratio: 1.0 x

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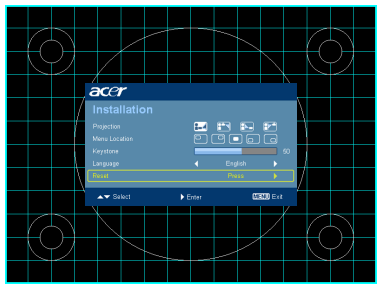
User Controls

Installation Menu

The installation menu provides an onscreen display (OSD) for projector installation and maintenance. Use the OSD only when the message "No signal input" is displayed on the screen.

1 Turn on the projector by pressing ⏻ (POWER) on the control panel or remote control.

2 Press "MENU" on the control panel or remote control to launch the OSD for projector installation and maintenance.



3 The background pattern acts as a guide to adjusting the calibration and alignment settings, such as screen size and distance, focus and more.

4 The Installation menu includes the following options:

- Projection method
- Menu location
- Keystone settings
- Language settings
- Reset to factory default function

Use the up and down arrow keys to select an option, the left and right arrow keys to adjust selected option settings, and the right arrow key to enter a submenu for feature setting. The new settings will be saved automatically upon exiting the menu.

5 Push "MENU" anytime to exit the menu and return to the Acer welcome screen.

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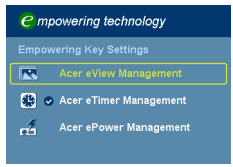
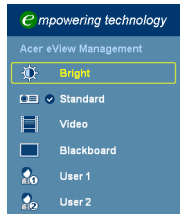
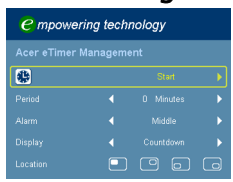
Acer Empowering Technology

Empowering Key 	Acer Empowering Key provides three Acer unique functions: "Acer eView Management", "Acer eTimer Management", and "Acer ePower Management". Press " " for more than one second to launch the Onscreen Display main menu to modify its function.
Acer eView Management 	Press " " to launch "Acer eView Management". "Acer eView Management" is for display mode selection. Please refer to the "Onscreen Display (OSD) Menus" section for more details.
Acer eTimer Management 	Press " " to launch "Acer eTimer Management". "Acer eTimer Management" provides the reminding function for presentation time control. Please refer to the "Onscreen Display (OSD) Menus" section for more details.
Acer ePower Management 	Press " " to launch "Acer ePower Management". "Acer ePower Management"provides you one shortcut to save the lamp and projector's life. Please refer to the "Onscreen Display (OSD) Menus" section for more details.

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Onscreen Display (OSD) Menus

The projector has multilingual Onscreen Display (OSD) menus that allow you to make image adjustments and change a variety of settings.

Using the OSD menus

- To open the OSD menu, press "MENU" on the control panel or remote control.
- When the OSD is displayed, use ▲▼ to select an item in the main menu.

  After selecting the desired main menu item, press ▶ to enter a submenu for feature setting.
- Use ▲▼ to select the desired item and adjust the settings by using ◀▶.
- Select the next item to be adjusted in the submenu and adjust as described above.
- Press "MENU" on the control panel or remote control, the screen will return to the main menu.
- To exit the OSD menu, press "MENU" on the control panel or remote control again. It will close and the projector will automatically save the new settings.

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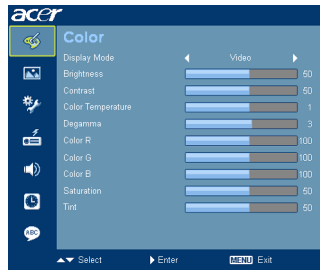
Color



Display Mode	There are many factory presets optimized for various types of images. • Bright: For brightness optimization. • Standard: For common environment. • Video: For playing video in a bright environment. • Blackboard: Blackboard mode can improve displayed color when you project onto darker surfaces. • User 1: Memorize user's settings. • User 2: Memorize user's settings.
Brightness	Adjusts the brightness of the image. • Press ◀ to darken the image. • Press ▶ to lighten the image.
Contrast	Controls the degree of difference between the lightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image. • Press ◀ to decrease the contrast. • Press ▶ to increase the contrast.
Color Temperature	Adjusts the color temperature. At higher color temperatures, the screen looks colder; at lower color temperatures, the screen looks warmer.
Degamma	Effects the representation of dark scenery. With greater gamma value, dark scenery will look brighter.
Color R	Adjusts the red color.
Color G	Adjusts the green color.
Color B	Adjusts the blue color.

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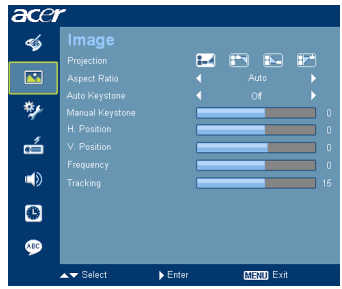
Saturation	Adjusts a video image from black and white to fully saturated colors. • Press ◀ to decrease the amount of color in the image. • Press ▶ to increase the amount of color in the image.
Tint	Adjusts the color balance of red and green. • Press ◀ to increase the amount of green in the image. • Press ▶ to increase the amount of red in the image.

Note: "Saturation" and "Tint" functions are not supported under computer mode.

Image



Projection	**Front-Desktop** • The factory default setting.
	Front-Ceiling • When you select this function, the projector inverts the image for ceiling-mounted projection.
	Rear-Desktop • When you select this function, the projector reverses the image so that you can project behind a translucent screen.

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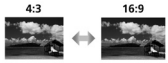
	Rear-Ceiling • When you select this function, the projector reverses and inverts the image at same time. You can project from behind a translucent screen with ceiling mounted projection.
Aspect Ratio 	Use this function to choose your desired aspect ratio. • Auto: Keep the image with original width-height ratio and maximize the image to fit native horizontal or vertical pixels. • 4:3: The image will be scaled to fit the screen and displayed using a 4:3 ratio. • 16:9: The image will be scaled to fit the screen and displayed using a 16:9 ratio.
Auto Keystone	Automatically adjusts image distortion caused by tilting projection (±40 degrees).
Manual Keystone	Manually adjusts image distortion caused by tilting projection (±40 degrees).
Sharpness	Adjusts the sharpness of the image. • Press ◀ to decrease the sharpness. • Press ▶ to increase the sharpness.
H. Position (Horizontal Position)	• Press ◀ to move the image left. • Press ▶ to move the image right.
V. Position (Vertical Position)	• Press ◀ to move the image down. • Press ▶ to move the image up.
Frequency	Changes the projector's refresh rate to match the frequency of your computer's graphics card. If you experience a vertical flickering bar in the projected image, use this function to correct it.
Tracking	Synchronizes the signal timing of the display with the graphic card. If you experience an unstable or flickering image, use this function to correct it.

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Note: "H. Position", "V. Position", "Frequency" and "Tracking" functions are not supported under video mode.

Note: "Sharpness" function is not supported under computer mode.

Setting

Menu Location	Chooses the OSD menu location on the display screen.
Source Lock	When this function is turned off, the projector will search for other signals if the current input signal is lost. When this function is turned on, it will lock the current source channel before you press "SOURCE" on the control panel or remote control for next channel.
Closed Caption	**Closed Caption Enable** Select "On" to enable the function when the selected input signal carries closed captions. • Captions: An onscreen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked as "CC" in TV listings). Set your screen aspect ratio to 4:3. The function is not available when the aspect ratio is "16:9" or "Auto". This function is only available when a composite video or S-Video input signal is selected and its system format is NTSC. **Caption Version** Selects a preferred closed captioning mode. To view captions, select CC1, CC2, CC3 or CC4 (CC1 displays captions in the primary language in your area).

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Security 	**Security** This projector provides a useful security function for the administrator to manage the usage of the projector. Press ▶ to change the "Security" setting. If the security function is enabled, your must enter "Administrator Password" first before changing the security setting. • Select "On" to enable the security function. You have to enter password depending on the "Security Mode". Please refer to "User Password" section for details. • If "Off" is selected, you can switch on the projector without password.
	Timeout (Min.) Once "Security" is set to "On", you can set timeout function. • Press ◀ ▶ to select timeout duration. • The range is from 10 to 990 minutes. • When time is up, the projector will request you to enter the password again. • The factory default setting of "Timeout (Min.)" is "Off". • Once the security function is enabled, the projector will request you to enter password when switching on the projector. Both "User Password" and "Administrator Password" can be accepted for this dialogue.
    	User Password • Press ▶ to set up or change "User Password". • Use the numerical keys on the remote control to set the password and press "MENU" to confirm. • To delete the digits, Press ◀. • Enter the password again when you see "Confirm Password" displayed. • The password should be 4~8 digits in length. • If you select "Request password only after plugging power cord", you are requested to input the password every time the power cord is plugged. • If you select "Always request password while projector turns on", you are requested to input the password every time the projector is turned on.

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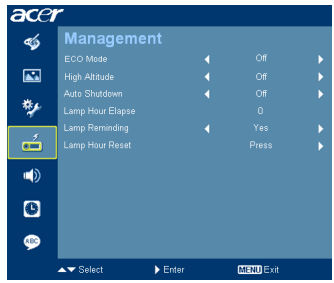
	Administrator Password You can enter "Administrator Password" when the "Enter Administrator Password" or "Enter Password" dialogue box displays. • Press ▶ to change "Administrator Password". • The factory default of "Administrator Password" is "1234". If you forget your administrator password, do the following to retrieve the administrator password: • Enter the unique 6-digit "Universal Password" which is printed on the Security Card that came with your projector. This unique password will be accepted by the projector no matter what the administrator password is. • If the Security Card is lost, please contact your local Acer service center.
VGA OUT (Standby)	Selecting "On" enables the function. The projector can output a VGA signal when it is in standby mode and the VGA IN and VGA OUT sockets are correctly connected to the devices. Enabling this function slightly increases the standby power consumption.
Reset	Press ▶ after choosing "Yes" to return the display parameters on all menus to the factory default settings.

Management



ECO Mode	Choose "On" to dim the projector lamp, which will also lower the power consumption, reduce noise, and extend the lamp life. Choose "Off" to return to the normal mode.

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High Altitude	Choose "On" to turn on the High Altitude mode. When this function is turned on, the projector fans operate at full speed continuously to cool down the projector's temperature.
Auto Shutdown (Minutes)	The projector will automatically shut down while there is no signal input detected after the setting time.
Lamp Hour Elapse	Displays the lamp's elapsed operating time (in hours).
Lamp Reminding	Choose this function to show or to hide warning message when the changing lamp message is displayed. The message will show up 30 hours before end of life.
Lamp Hour Reset	Press ▶ after choosing "Yes" to turn the lamp hour counter to 0 hours.

Audio

Volume	• Press ◀ to decrease the volume. • Press ▶ to increase the volume.
Mute	• Choose "On" to turn mute on. • Choose "Off" to turn mute off.
Power On/Off Volume	Select this function to adjust the notification volume when turning the projector on/off.

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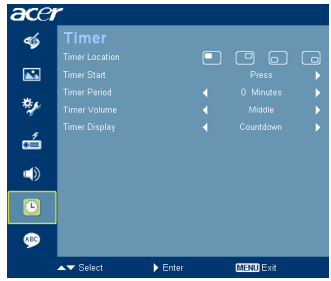
Timer



Timer Location	Choose the location of the timer on the screen.
Timer Start (or Stop)	Press ▶ to start or stop the timer.
Timer Period (Minutes)	Press ◀ ▶ to adjust the timer period.
Timer Volume	Select this function to adjust the notification volume when the timer function is enabled and time is up.
Timer Display	Press ◀ ▶ to choose a timer display mode.

Language

Language	Sets a language for the OSD menus. Use ▲ ▼ to select your preferred language. • Press ▶ to confirm the selection.

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Appendices

Troubleshooting

If you experience a problem with your Acer projector, refer to the following troubleshooting guide. If the problem persists, please contact your local reseller or service center.

Image Problems and Solutions

#	Problem	Solution
1	No image appears onscreen	• Make sure all the cables are correctly connected as described in the "Getting Started" section. • Ensure none of the connector pins are bent or broken. • Check if the projection lamp has been securely installed. Please refer to the "Replacing the Lamp" section. • Make sure you have removed the lens cap and the projector is switched on.

2	Partial, scrolling or incorrectly displayed image (For PC (Windows 95/98/2000/XP))	• Press "RESYNC" on the control panel or remote control.
		• For an incorrectly displayed image:
		  • Open "My Computer > Control Panel," and then double-click the "Display" icon.
		  • Select the "Settings" tab.
		  • Verify that your display resolution setting is lower than or equal to WXGA+ (1440 x 900).
		  • Click the "Advanced Properties" button.
		If the problem still appears, change the monitor display you are using and follow the steps below:
		  • Verify that the resolution setting is lower than or equal to WXGA+ (1440 x 900).
		  • Click the "Change" button under the "Monitor" tab.
		  • Click "Show all devices > Standard monitor types" under the SP box, and choose the resolution mode you need under the "Models" box.
		  • Verify that the resolution setting of the monitor display is lower than or equal to WXGA+ (1440 x 900).

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3	Partial, scrolling or incorrectly displayed image (For notebooks)	• Press "RESYNC" on the control panel or remote control.
		• For an incorrectly displayed image:
		  • Follow the steps for item 2 (above) to adjust the resolution of your computer.
		  • Press the toggle output settings. Example: [Fn]+[F4], Compaq [Fn]+[F4], Dell [Fn]+[F8], Gateway [Fn]+[F4], IBM [Fn]+[F7], HP [Fn]+[F4], NEC [Fn]+[F3], Toshiba [Fn]+[F5]
		• If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.

4	The screen of the notebook computer is not displaying your presentation	• If you are using a Microsoft® Windows® based notebook: Some notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer's manual for detailed information. • If you are using an Apple® Mac® OS based notebook: In System Preferences, open Display and select Video Mirroring "On."
5	Image is unstable or flickering	• Use "Tracking" to correct it. Refer to the "Image Setting" section for more information. • Change the display color setting on your computer.
6	Image has vertical flickering bar	• Use "Frequency" to make an adjustment. Refer to the "Image Setting" section for more information. • Check and reconfigure the display mode of your graphics card to make it compatible with the projector.
7	Image is out of focus	• Make sure the lens cap is removed. • Adjusts the focus ring on the projector lens. • Make sure the projection screen is within the required distance of 3.94 to 26.25 feet (1.2 to 8 meters) from the X1130/X1230 projector, or 2.30 to 14.76 feet (0.7 to 4.5 meters) from the X1230S projector. Refer to the "How to Get a Preferred Image Size by Adjusting Distance and Zoom" section for more information.
8	Image is stretched when displaying a "widescreen" DVD title	When you play a DVD encoded in anamorphic or 16:9 aspect ratio you may need to adjust the following settings: • If you play a 4:3 format DVD title, please change the format to 4:3 in the projector OSD. • If the image is still stretched, you will also need to adjust the aspect ratio. Set up the display format to 16:9 (wide) aspect ratio on your DVD player.

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9	Image is too small or too large	• Adjust the zoom lever on the top of the projector. • Move the projector closer to or further from the screen. • Press "MENU" on the control panel or remote control. Go to "Image > Aspect Ratio" and try different settings.
10	Image has slanted sides	• If possible, reposition the projector so that it is centered on the screen and below the bottom of the screen. • Press the Keystone correction keys on the control panel or remote control until the image becomes square. • Press "MENU" on the control panel or remote control to open the OSD menu. Go to "Image > Auto Keystone" or "Image > Manual Keystone" to make adjustments.
11	Image is reversed	• Select "Image > Projection" on the OSD and adjust the projection direction.

Problems with the Projector

#	Condition	Solution
1	The projector stops responding to all controls	If possible, turn off the projector, then unplug the power cord and wait at least 30 seconds before reconnecting power.
2	Lamp burns out or makes a popping sound	When the lamp reaches the end of its useful life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the "Replacing the Lamp" section.

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OSD Messages

#	Condition	Message Reminder
1	Message	Fan Fail - the system fan is not working. Fan Fail. Lamp will automatically turn off soon. Projector Overheated - the projector has exceeded its recommended operating temperature and must be allowed to cool down before it is used. Please also check the dust filters if they are installed. If the dust filter is clogged with dust, please clean it. Please refer to "Cleaning and replacing the dust filter" for details. Projector Overheated. Lamp will automatically turn off soon. Replace the lamp - the lamp is about to reach its maximum lifetime. Prepare to replace it soon. Lamp is approaching the end of its useful life in full power operation. Replacement suggested!

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LED & Alarm Definition Listing

LED Messages

Message	Power LED		Lamp LED	Temp LED
	Red	Blue	Red	Red
Standby (Power cord plugged in)	V	--	--	--
Power on	--	V	--	--
Lamp retry	--	Quick flashing	--	--
Turning off (Cooling state)	Quick flashing	--	--	--
Turning off (Cooling completed)	V	--	--	--
Error (Thermal failure)	--	V	--	V
Error (Fan lock failure)	--	V	--	Quick flashing
Error (Lamp breakdown)	--	V	V	--
Error (Color wheel failure)	--	V	Quick flashing	--

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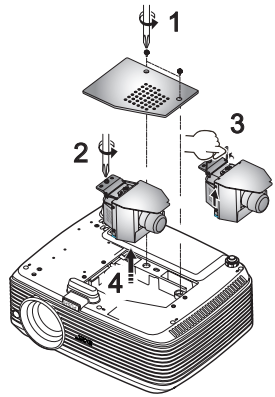
Replacing the Lamp

Use a screwdriver to remove the screw(s) from the cover, and then pull out the lamp.

The projector will detect the lamp life itself. It will show you a warning message **"Lamp is approaching the end of its useful life in full power operation. Replacement Suggested!"** When you see this message, change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.

Warning: Lamp compartment is hot! Allow it to cool down before changing lamp!



To change the lamp:

1 Turn the projector off by pressing (POWER).

2 Allow the projector at least 30 mins to cool down.

3 Disconnect the power cord.

4 Use a screwdriver to remove the screws from the cover. (Illustration #1)

5 Push up and remove the cover.

6 Remove the screw that secures the lamp module (Illustration #2) and pull up the lamp bar. (Illustration #3)

7 Pull out the lamp module by force. (Illustration #4)

To replace the lamp module, reverse the previous steps.

Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

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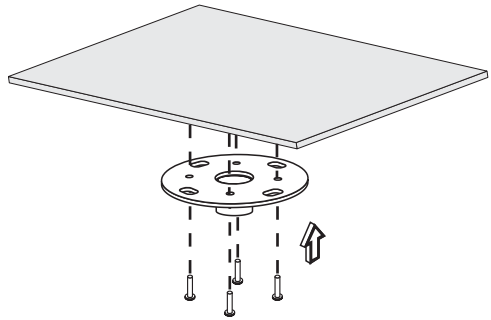
Ceiling Mount Installation

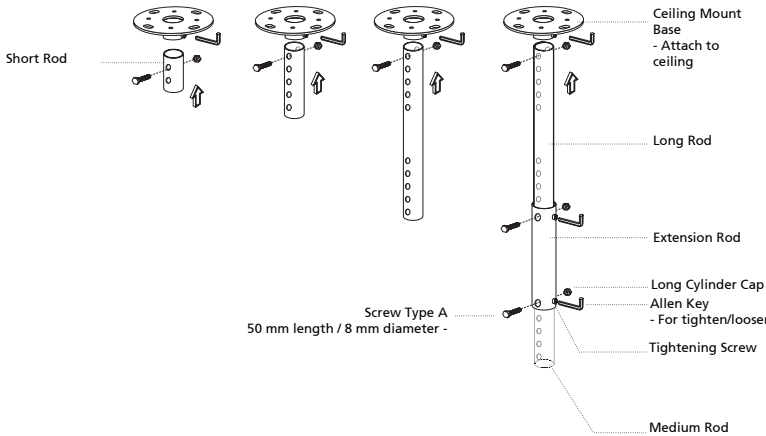
If you wish to install the projector using a ceiling mount, please refer to the steps below:

1 Drill four holes into a solid, structurally sound part of the ceiling, and secure the mount base.



Note: Screws are not included. Please obtain the appropriate screws for your type of ceiling.

2 Secure the ceiling rod using the appropriate type of cylinder screws.



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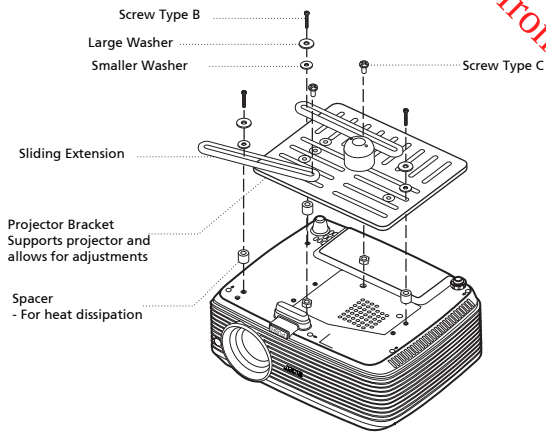
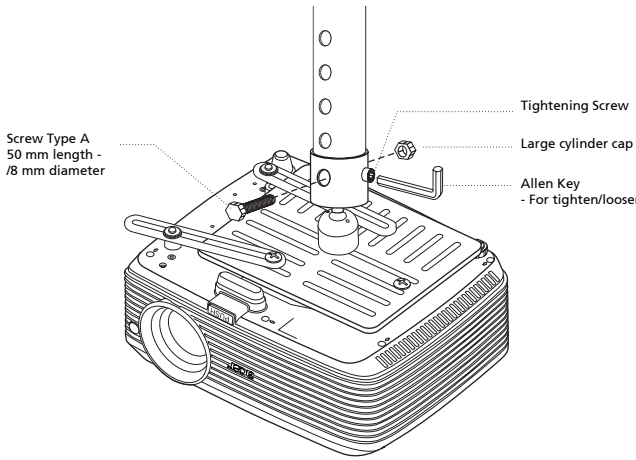
3 Use the appropriate number of screws for the projector size to attach the projector to the ceiling mount bracket.



Note: It is recommended that you keep a reasonable space between the bracket and the projector to allow for proper heat distribution. Use two washers for extra support, if deemed necessary.

4 Attach the ceiling bracket to the ceiling rod.



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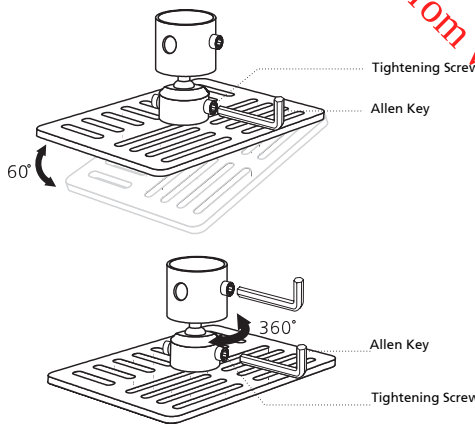
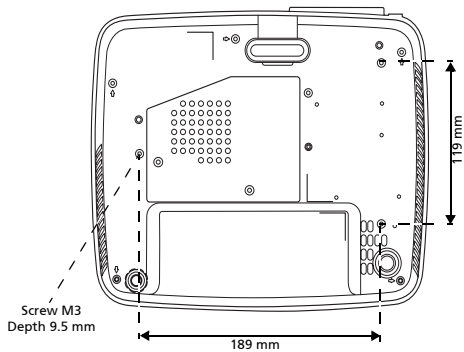
5 Adjust the angle and positioning as necessary.



Note: The appropriate type of screw and washer for each model is listed in the table below. 3 mm diameter screws are enclosed in the screw pack.

Models	Screw Type B		Washer Type	
	Diameter (mm)	Length (mm)	Large	Small
X1130/X1230/ X1230S	3	25	V	V



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Specifications

The specifications below are subject to change without notice. For final specs, please refer to Acer's marketing documentation.

Projection system	DLP™
Resolution	• X1130: Native: SVGA (800 x 600) Maximum: SXGA (1280 x 1024), WXGA+ (1440 x 900) • X1230/X1230S Native: XGA (1024 x 768), Maximum SXGA (1280 x 1024), WXGA+ (1440 x 900)
Computer compatibility	IBM PC and compatibles, Apple Macintosh, iMac and VESA standards: WXGA+ (1440 x 900), WXGA (1280 x 800, 1280 x 768), SXGA (1280 x 1024), XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480)
Video compatibility	NTSC (3.58/4.43), PAL (B/D/G/H/I/M/N), SECAM (B/D/G/K/K1/L), HDTV (720p, 1080i), EDTV (480p, 576p), SDTV (480i, 576i)
Aspect ratio	4:3 (native), 16:9
Displayable colors	16.7 million colors
Projection lens	• X1130/X1230: F = 2.56 - 2.8, f = 21.00 mm - 23.00 mm, 1:1.1 Manual Zoom and Manual Focus • X1230S: F = 2.5, f = 10mm, Manual Focus
Projection screen size (diagonal)	• X1130/X1230: 35" (0.89 m) - 159" (4.04 m) • X1230S: 27" (69 cm) - 300" (762 cm)
Projection distance	• X1130/X1230: 3.9' (1.2 m) - 37.2' (11.3 m) • X1230S: 1.6' (0.5 m) - 18.0' (5.5 m)
Throw ratio	• X1130/X1230: 53" @ 2 m (1.86 - 2.04 : 1) • X1230S: 109" @ 2 m (0.90 : 1)
Horizontal scan rate	31 - 93 kHz
Vertical refresh scan rate	48 - 86 Hz
Lamp type	Philips 189 W user-replaceable UHP
Keystone correction	+/-40 Degrees (Vertical), Manual & Auto
Digital zoom	2 X
Audio	• X1130: N/A • X1230/X1230S: 2 W x 1
Weight	• X1130/X1230: Approximate 2.3 kg (5.07 lbs.) • X1230S: Approximate 2.5 kg (5.51 lbs.)
Dimensions (W x D x H)	264 x 225 x 95 mm (10.4" x 8.6" x 3.7")

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Power supply	Universal AC input 100 - 240 V, Input frequency 50/60 Hz
Power consumption	280 W
Operating temperature	0°C to 40°C / 32°F to 104°F
I/O connectors	• Power socket x 1 • RS232 x 1 • VGA input x 1 • Composite video x 1 • S-Video x 1 Below items are for X1230/X1230S only. • 3.5 mm audio jack input x 1 • VGA output x 1 • 3.5 mm audio jack output x 1
Standard package contents	• AC power cord x 1 • VGA cable x 1 • Composite video cable x 1 • Remote control x 1 • Battery x 2 (for the remote control) • User's guide (CD-ROM) x 1 • Quick start guide x 1 • Security card x1 • Carrying case x 1

* Design and specifications are subject to change without notice.

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Compatibility Modes

1 VGA Analog - PC Signal

Mode	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
VGA_60	640 x 480	59.940	31.469
VGA_72		72.809	37.861
VGA_75		75.000	37.500
VGA_85		85.008	43.269
720 x 400_70	720 x 400	70.087	31.469
720 x 400_85	720 x 400	85.000	37.900
SVGA_56	800 x 600	56.000	35.200
SVGA_60		60.317	37.879
SVGA_72		72.188	48.077
SVGA_75		75.000	46.875
SVGA_85		85.061	53.674
XGA_60	1024 x 768	60.004	48.363
XGA_70		70.069	56.476
XGA_75		75.029	60.023
XGA_85		84.997	68.667
SXGA_70	1152 x 864	70.000	63.800
SXGA_75		75.000	67.500
SXGA_60	1280 x 1024	60.020	63.981
1280 x 960_60	1280 x 960	60.000	60.000
Mac G4	640 x 480@60Hz	59.94	31.469
MAC13	640 x 480@67Hz	66.667	35.000
Mac G4	800 x 600@60Hz	60.317	37.879
MAC16	832 x 624@75Hz	74.546	49.722
Mac G4	1024 x 768@60Hz	60.004	48.363

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MAC19	1024 x 768@75Hz	75.020	60.241
MAC21	1152 x 870@75Hz	75.060	68.680
WXGA_60	1280 x 768	60.000	47.400
WXGA_75		74.890	60.290
WXGA_60	1280 x 720	59.94	45.000
WXGA_60	1280 x 800	59.81	49.702
WXGA+_60	1440 x 900	59.887	59.935
16:9 timing	1366 x 768	59.790	47.712
16:9 timing	1024 x 576	59.899	35.880
Acer AspireOne	1024 x 600	60.000	37.500

2 YPbPr Signal

Modes	Resolution	V.Frequency [Hz]	H.Frequency [KHz]
480i	720 x 480 (1440 x 480)	59.94	15.73
480p	720 x 480	59.94	31.47
576i	720 x 576 (1440 x 576)	50.00	15.63
576p	720 x 576	50.00	31.25
720p	1280 x 720	60.00	45.00
720p	1280 x 720	50.00	37.50
1080i	1920 x 1080	60.00	33.75
1080i	1920 x 1080	50.00	28.13

3 Video, S-Video Signal

Modes	V.Frequency [Hz]	H.Frequency [KHz]	fsc (MHz)
NTSC	15.73	60	3.58
PAL	15.63	60	4.43

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SECAM	15.63	60	4.25 or 4.41
PAL-M	15.73	60	3.58
PAL-N	15.63	60	3.58
PAL-60	15.73	60	4.43
NTSC4.43	15.73	60	4.43

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Regulations and safety notices

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Notice: Peripheral devices

Only peripherals (input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this device.

Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

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Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme a la norme NMB-003 du Canada.

Canada — Low-power license-exempt radio communication devices (RSS-210)

a Common information
Operation is subject to the following two conditions:
1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

b Operation in 2.4 GHz band
To prevent radio interference to the licensed service, this device is intended to be operated indoors and installation outdoors is subject to licensing.

Declaration of Conformity for EU countries

Acer hereby, declares that this projector series is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. (Please visit http://global.acer.com/support/certificate.htm for complete documents.)

Compliant with Russian regulatory certification

ME61

Radio device regulatory notice

Note: The regulatory information below is for models with wireless LAN and/or Bluetooth only.

General

This product complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. Depending on configurations, this product may or may not contain wireless radio devices (such as wireless LAN and/or Bluetooth modules). The below information is for products with such devices.

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European Union (EU)

R&TTE Directive 1999/5/EC as attested by conformity with the following harmonized standard:

- **Article 3.1(a) Health and Safety**
  - EN60950-1:2001
  - EN50371:2002 (SAR, general FR device)
- **Article 3.1(b) EMC**
  - EN301 489-1 V1.4.1 (common technical requirement)
  - EN301 489-3 V1.4.1 (for short range device)
  - EN301 489-17 V1.2.1 (for widerband data and HIPETLAN equipment)
- **Article 3.2 Spectrum Usages**
  - EN300 220-1 V1.3.1 (for short range device, 25~1000MHz, part 1)
  - EN300 220-2 V2.1.1 (for short range device, 25~1000MHz, part 3)
  - EN300 440-2 V1.1.2 (for short range device, 1G~20GMHz, part 2)
  - EN300 328 V1.6.1 (for data transmission equipment operating in the 2,4 GHz ISM band
  - EN301 893 V1.2.3 (5GHz high performance RLAN)

List of applicable countries

EU member states as of May 2004 are: Belgium, Denmark, Germany, Greece, Spain, France, Ireland, Italy, Luxembourg, the Netherlands, Austria, Portugal, Finland, Sweden, United Kingdom Estonia, Latvia, Lithuania, Poland, Hungary, Czech Republic, Slovak Republic, Slovenia, Cyprus and Malta. Usage allowed in the countries of European Union, as well as Norway, Switzerland, Iceland and Liechtenstein. This device must be used in strict accordance with the regulations and constraints in the country of use. For further information, please contact a local office in the country of use.

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Acer America Corporation
333 West San Carlos St., San Jose
CA 95110, U. S. A.
Tel: 254-298-4000
Fax: 254-298-4147
www.acer.com

Federal Communications Commission
Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The following local Manufacturer / Importer is responsible for this declaration:

Product:	DLP Projector
Model Number:	QSV0812/QNX0813/QNX0814
Machine Type:	X1130/X1230/X1230S series
Name of Responsible Party:	Acer America Corporation
Address of Responsible Party:	333 West San Carlos St. San Jose, CA 95110 U. S. A.
Contact Person:	Acer Representative
Phone No.:	254-298-4000
Fax No.:	254-298-4147

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Acer Incorporated
8F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih
Taipei Hsien 221, Taiwan

Declaration of Conformity

We,

Acer Incorporated
8F, 88, Sec. 1, Hsin Tai Wu Rd., Hsichih, Taipei Hsien 221, Taiwan

Contact Person: Mr. Easy Lai
Tel: 886-2-8691-3089 Fax: 886-2-8691-3120
E-mail: easy_lai@acer.com.tw

Hereby declare that:

Product:	**DLP Projector**
Trade Name:	**Acer**
Model Number:	**QSV0812/QNX0813/QNX0814**
Machine Type:	**X1130/X1230/X1230S series**

Is compliant with the essential requirements and other relevant provisions of the following EC directives and that all the necessary steps have been taken and are in force to assure that production units of the same product will continue comply with the requirements.

EMC Directive 2004/108/EC as attested by conformity with the following harmonized standards:

-. EN55022: 2006, AS/NZS CISPR22: 2006, Class B
-. EN55024: 1998 + A1: 2001 + A2:2003
-. EN61000-3-2: 2006, Class A
-. EN61000-3-3: 1995 + A1: 2001+A2: 2005

Low Voltage Directive 2006/95/EC as attested by conformity with the following harmonized standard:

-. EN60950-1: 2001 + A11: 2004

Council Decision 98/482/EC (CTR21) for pan- European single terminal connection to the Public Switched Telephone Network (PSTN).

RoHS Directive 2002/95/EC on the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment

The standards listed below are applied to the product if built with WLAN module or wireless keyboard and mouse.

R&TTE Directive 1999/5/EC as attested by conformity with the following harmonized standard:

- **Article 3.1(a) Health and Safety**
  -. EN60950-1:2001 + A11:2004
  -. EN50371:2002
- **Article 3.1(b) EMC**
  -. EN301 489-1 V1.6.1
  -. EN301 489-17 V1.2.1
- **Article 3.2 Spectrum Usages**
  -. EN300 328 V1.7.1
  -. EN301 893 V1.4.1 (Applicable to 5GHz high performance RLAN).

Year to begin affixing CE marking 2008.

Easy Lai

Easy Lai /Manager

Regulation Center, Acer Inc.